Geometry honors problem sets

Circle properties review

1.  is tangent to circle O. Secant  is perpendicular to  at P. If  and , find

a) AB

b) the distance from O to 

c) the radius of circle O



2. A circle can be drawn through points X, Y, and Z.

a) What is the radius of the circle?

b) How far is the center of the circle from point W?

3. In the diagram,  is tangent to circle O and  intersects circle O at J. Find the radius of the circle.

***is tangent to the circle.***

4. If , then \_\_\_\_\_\_\_\_.

5. If , then \_\_\_\_\_\_\_.

6. If  and , then \_\_\_\_\_\_\_\_.

7. If , , and , then \_\_\_\_\_\_\_\_.

8. , , and  are tangents. Find the value of x and y.

*** and are secants and is a tangent.***

9. If  and , then \_\_\_\_\_\_\_\_.

10. If , , and , then \_\_\_\_\_\_\_\_.

11. If and , then \_\_\_\_\_\_\_\_.